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DATE MAILED: 10/30/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/516,428	11/30/2004	Francis Chi	505/9-2011	4964
28156	28156 7590 10/30/2006		EXAMINER	
COLEMAN SUDOL SAPONE, P.C.			SZPERKA, MICHAEL EDWARD	
714 COLORADO AVENUE BRIDGE PORT, CT 06605-1601			ART UNIT	PAPER NUMBER
	•		1644	

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Responsive to communication(s) filed on 22 August 2006. 2a) This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-43 is/are pending in the application. 4a) Of the above claim(s) 1-23.27 and 28 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 24-26 and 29-42 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * ○ None of:	· ·	Application No.	Applicant(s)				
Michael Szperka 1844	Office Action Occurrence	10/516,428	CHI ET AL.				
- The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Examinate of this may be available under the provisions of 3 CPR 1.136b, in one vent, however, are nely be timely liked in the provision which was the provision of 3 CPR 1.136b, in one vent, however, are nely be timely filled in the provision of the provisio	Oπice Action Summary	Examiner	Art Unit				
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Application/Control Number: 10/516,428

Art Unit: 1644

DETAILED ACTION

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1. Applicant's response and amendments received August 22, 2006 are acknowledged.

Claims 24, 29-32 and 34-42 have been amended.

Claims 1-43 are pending in the instant application.

Claims 1-23, 27, 28, and 43 stand withdrawn from consideration as being drawn to nonelected inventions and species. See 37 CFR 1.142(b) and MPEP § 821.03, for reasons of record set forth in the restriction requirement mailed October 11, 2005.

Claims 24-26 and 29-42 are under examination as they read on administering antibodies that bind adipocyte plasma membranes to reduce adipose tissue content.

Claim Objections

2. The objection to claims 29-42 under 37 CFR § 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim, see MPEP 608.01(n), has been removed in light of applicant's claim amendments received 8/22/06 which alter claim dependency.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. The rejection of claims 24-26 and 29-42 under 35 U.S.C. 112, second paragraph, as being indefinite has been withdrawn in view of applicant's claim amendments received 8/22/06.

Specifically, the claim amendments replace "modulate" with "reduce" thus allowing a skilled artisan to know how performing applicant's claimed method changes the content of adipose tissues.

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Further, the rejection of claim 42 for the indefinite recitation of "said animal" has been withdrawn in view of applicant's amendment to the claim to recite "said target animal".

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. The rejection of claims 24-26 and 29-42 under 35 U.S.C. 112, first paragraph, enablement, has been withdrawn in view of applicant's claim amendments received 8/22/06.

Specifically, these amendments narrow the claimed invention to methods wherein administered antibodies reduce adipose tissues as is described in the working examples.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 24-26 and 29-42 stand rejected under 35 U.S.C. 103(a) as being obvious over Flint (US Patent No. 5,102,658, of record as reference AB on the IDS received

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3/4/05, see entire document) in view of Lee (US patent No. 5,367,054, see entire document).

The office action mailed 3/22/06 states:

Flint teaches a method of administering antibodies raised against adipocyte plasma membranes to target animals in order to decrease adipose tissue mass in the target animal (see entire document, particularly the abstract, claims 1-3, and lines 19-23 of column 1). He further teaches that the administered antibodies can be made in an animal that is evolutionarily removed from the target animal in which a decrease in adipose tissue is desired (see particularly lines 26-30 of column 1 and Example C). Note that in working example C, rats were administered anti-rat adipocyte plasma membrane polyclonal antibodies that had been made in sheep. Particularly desirable target animals for the treatment methods taught by Flint include humans, lambs, cows, and pigs (see particularly lines 19-23 of column 1 and claim 3). The teachings of Flint differ from the instant claimed invention in that Flint does not specifically mention that egg laying animals are to be used to produce anti-adipocyte antibodies and Flint does not indicate that anti-adipocyte antibodies are to be orally administered.

Lee teaches methods of producing IgY antibodies from the yolk of chickens and other egg-laying animals such as reptiles, amphibians and fish (see entire document, particularly the abstract, lines 5-10 of column 1, and claims 1-15). Antibodies produced in eggs enjoy the advantages of increased specificity against mammalian proteins, low cost, convenience, and compatibility with animal welfare regulations (see particularly lines 34-47 of column 1). Additional advantages of egg yolk antibodies are that they can be easily administered in food and in other compositions suitable for oral ingestion (see particularly lines 29-33 of column 1 and lines 30-40 of column 3).

Therefore, a person of ordinary skill in the art at the time the invention was made would have been motivated to administer anti-adipocyte plasma membrane antibodies to a target animal to reduce adipose tissue mass in the target animal as taught by Flint using anti-adipocyte plasma membrane antibodies produces in egg laying animals such as chickens as taught by Lee to gain the advantages of low cost antibodies that can be incorporated into food for increased ease of administration to patients as was also taught by Lee.

Applicant's arguments filed 8/22/06 have been fully considered but they are not persuasive. Applicant argues that Flint teaches away from making the instant invention, and as such there is no motivation to combine the references. The argument begins with applicant stating that column 1, lines 51-53 would lead a skilled artisan away for the claimed invention. The indicated passage teaches:

"Antigenic adipocyte material is *usually* derived from the same species, and preferably the same strain, as the animal to be treated with antibodies." (emphasis added by examiner)

and applicant states that in the language of the instant invention "the same species" and "the animal" refer to the source animal and target animal.

This argument is not convincing because a common source and target animal appears to only be one embodiment of the invention of Flint. Flint does not teach that his method will not work if the source animal and target animal are different species, and the scope of his patented claims are not limited in this manner. Further, no claims positively recite that the source animal and target animal are different species, and

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indeed claim 34 recites "wherein said target animal and said source animal belong to the same species". As such, applicant is arguing limitations not claimed.

Applicant's second argument is that Flint further teaches away in column 2, lines 8-13. This passage teaches:

"It will be appreciated that when antibodies are derived directly from an antiserum, the donor is *preferably* a relatively large animal differing, as hereinbefore described, evolutionally from the antigen donor."

and applicant remarks that "the donor" refers to the production animal, i.e. the egglaying animal of the claimed method. Given that most egg-laying animals are small, applicant concludes that the passage teaches away.

This argument is not convincing because the antibodies used in the methods taught by Flint do not need to be derived from serum. A skilled artisan knew at the time the invention was made that a when using serum-derived antibodies, increased animal serum volume correlates with increased antibody yield from serum, but large animals are only preferred, not required. Further, serum is not the only way to obtain antibodies, and Flint specifically teaches other methods of obtaining antibodies for use in his methods, such as hybridoma production (see particularly lines 48-50 of column 1. The reason for using large serum donors or hybridoma production is so that large quantities of antigen-specific antibody can be produced. Lee teaches that large quantities of antigen-specific IgY can be easily produced from eggs.

Applicant also argues that Lee does not provide motivation to combine the references because "Lee is directed to the therapeutic use of antibodies and is not concerned with reducing adipocity in animals, and Lee is concerned with antibody purification" and because "the claimed invention is directed to a non-therapeutic method".

This argument is not convincing because reducing adipocity by administering anti-adipocyte IgY is clearly a therapeutic use. Any in vivo method (such as administering an antibody) that has a demonstrable effect on the patient (i.e. the subject to whom the antibody is administered) is therapeutic. Further, Lee discusses at purification at length because as he states in the *Background of the Invention*, prior art methods for isolating IgY did not make large quantities of IgY suitable for the production

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of kilogram levels of antibodies, yet his method does yield sufficient quantities for use as pharmaceuticals and food additives.

Applicant argues that Lee does not teach adipocytes as antigens and that the antigens of Lee are limited to bacterial antigens.

This argument is not convincing because Lee teaches "The selection of other suitable antigens is within the knowledge of one of ordinary skill in the art." (see lines 25-27 of column 8) and Lee does not need to teach adipocyte antigens since the claims are rejected as obvious rather than anticipated.

Applicant's last argument is that since no one published art that anticipates applicant's invention in the 12 years between the issuance of the Lee patent and the filing of the instant invention, the invention cannot be obvious.

This argument is not convincing because lack of anticipation and a rejection under 35 USC 102 does not impede an obviousness rejection under 35 USC 103. As discussed above, at the time the invention was made, a skilled artisan would have been motivated to combine the teachings of Flint and Lee to arrive at the claimed invention for the reasons of record.

The rejection of record is maintained.

The following are new ground of rejection necessitated by applicant's amendments received 8/22/06

9. Claims 24-26 and 29-42 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

Applicant has amended part (v) of independent claim 24 to recite "administering a *non-pharmaceutical* composition including an effective amount of said antibodies...". Applicant has not indicated wherein the specification support for such an amendment can be located. The examiner has reviewed the specification and has located support

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for language such as "administering a pharmaceutically effective amount of the antibodies to the target animal..." (see lines 5-8 of page 9) but has not located support for the claim as currently recited. Further, the claimed method is a method of reducing content of adipose tissues in the body of a target animal. The antibodies administered as part of the claimed method cause this reduction. The Merriam-Webster OnLine dictionary defines pharmaceutical as "a medicinal drug." Given that the antibodies are ingested and that they have an in vivo effect, the antibodies are a medicinal drug/pharmaceutical. As such, applicant's claim amendments appear to have introduced a limitation into the claimed subject matter that is not supported by the disclosure as filed. Such an amendment comprises the addition of new matter to the claimed subject material. Note that claim 24 is the only independent claim under examination, and that none of the dependent claims further limit the claimed invention such that the new matter is excluded.

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10. Claims 24-26 and 29-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Specifically applicant has amended independent claim 24 to recite "...administering a non-pharmaceutical composition including an effective amount of an antibody...". The claimed method reduces adipose tissue in an animal by administering the animal an antibody that binds adipocytes. Given the in vivo nature of the claimed method, and the fact that agents must be placed in pharmaceutical compositions for administration in vivo, it is not clear how an administered antibody can be in a non-pharmaceutical composition that is used in the claimed method.

- 11. No claims are allowable.
- 12. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Szperka whose telephone number is 571-272-2934. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571-272-0841. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Szperka, Ph.D. Patent Examiner Technology Center 1600 October 13, 2006

G.R. EWOLDT, PH.D. PRIMARY EXAMINER